

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

Filing Date:

Applicant: Gayatri Vyas

Group Art Unit:

Examiner:

Title: ELECTRICAL CONTACT ELEMENT AND BIPOLAR
PLATE

Attorney Docket: 8540G-000236/COA

Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A.____ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. X Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

<u>U.S. Serial Number</u>
10/004,322
10/087,677

<u>U.S. Filing Date</u>
October 25, 2001
March 1, 2002

C. X Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D. This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. X A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)): ***EP 0984 081 01-See English language claims.***

1. See the attached foreign patent office communication from a counterpart foreign application:
2. English translations are provided:
3. Other:

C. The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. X The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.
10/004,322
10/087,677

Filing Date
October 25, 2001
March 1, 2002

Art Unit

V. THIS IDS IS BEING FILED UNDER

A. X **37 C.F.R. § 1.97(b):** (check only one box)

1. X within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ____ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. ____ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. ____ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ____ **37 C.F.R. § 1.97(c):** (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ____ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ____ See the certification below. No fee is required.

C. ____ **37 C.F.R. § 1.97(d):**

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ____ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A. each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or

B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

 each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

A. A check in the amount of \$180.00 is enclosed for the above-identified fee.

B. Please charge Deposit Account No. 07-0960 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.


The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 07-0960.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 07-0960.

Respectfully submitted,

Dated: 20 October 2003

By: 
Linda M. Deschere
Reg. No. 34,811

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LDES/sst

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 2 of 3	ATTORNEY DOCKET NO.	SERIAL NO.
	8540G-000236/COA	
	APPLICANT	
	Gayatri Vyas et al.	
	FILING DATE	GROUP

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.		EP-A-0933825	08/04/99	Europe		X	
2.		EP-A-0940868	09/08/99	Europe		X	
3.		EP-A-97202343.6	11/11/92	Europe		X	
4.		EP-A-0975039	01/26/00	Europe		X	
5.		EP-A-983973	05/02/03	Europe		X	
6.		EP-A-0984081	04/02/03	Europe		X	
7.		WO 96/11802	04/25/96	WIPO	B32B	X	
8.		WO98/10477	03/12/98	WIPO		abstract	
9.		WO98/53514	11/26/98	WIPO		X	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
1.		M. Hilgendorf, L. Spanhebel, Ch. Rothenhäusler and G. Müller "From ZnO Colloids to Nanocrystalline Highly Conductive Films " in J. Electrochem. Soc., Vol.145, No. 10, October 1998, pages 3632 – 3637.
2.		R. Gordon, Chemical Vapor Deposition of Coatings on Glass, Journal of Non-Crystalline Solids 218 (1997) 81-91
3.		Acosta et al., "About the structural, optical and electrical properties of SnO ₂ films produced by spray pyrolysis from solutions with low and high contents of fluorine," Thin Solid Films 288 (1996) 1-7
4.		Ma et al., "Electrical and optical properties of F-doped textured SnO ₂ films deposited by APCVD," Solar Energy Materials and Solar Cells 40 (1996) 371-380

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 3 of 3	ATTORNEY DOCKET No.	SERIAL No.
	8540G-000236/COA	
	APPLICANT	
	Gayatri Vyas et al.	
	FILING DATE	GROUP

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
5.		Sekhar et al., "Preparation and study of doped and undoped tin dioxide films by the open air chemical vapor deposition technique," Thin Solid Films 307 (1997) 221-227
6.		Mientus et al, "Structural, electrical and optical properties of SnO _{2-x} F-layers deposited by DC-reactive magnetron-sputtering from a metallic target in Ar-O ₂ /CF ₄ mixtures," Surface and Coatings Technology 98 (1998) 1267-1271
7.		Suh, et al., "Atmospheric-pressure chemical vapor distribution of fluorine-doped tin oxide thin films" Thin Solid Films 345 (1999) 240-243
8.		Perry et al., Chemical Engineers' Handbook Fifth Edition (1973) pp. 68-69
9.		International Search Report dated 6/20/2003; Int'l Appln. No. PCT/US03/05609

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 1 of 3	ATTORNEY DOCKET NO.	SERIAL No.
	8540G-000236/COA	
	APPLICANT	
	Gayatri Vyas et al.	
	FILING DATE	GROUP

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
	1.	RE 37,284	07/17/01	Li, et al.	429/32	
	2.	2002/081478	06-2002	Busenbender, Ilona	429-34	
	3.	3,134,697	11/03/59	Niedrach	136/86	
	4.	3,677,814	07/18/72	Gillery, et al.	117/211	
	5.	4,146,657	03/27/79	Gordon	427/126	
	6.	4,708,918	11/24/87	Fitzgerald, et al.	429/217	
	7.	4,272,353	06/09/81	Lawrance, et al.	204/283	
	8.	4,510,219	04/09/85	Rowlette		
	9.	4,973,358	11/27/90	Jin, et al.	75/415	
	10.	5,272,017	12/21/93	Swathirajan, et al.	429/33	
	11.	5,334,464	08/02/94	Rowlette	429/210	
	12.	5,624,769	04/29/97	Li et al.	429/32	
	13.	5,800,946	09/01/98	Grosvenor, et al.	429/210	
	14.	5,942,347	08-1999	Koncar, et al.	429/30	
	15.	5,981,072	11/09/99	Mercuri, et al.		
	16.	6,037,074	03-2000	Mercuri, et al.	429/34	
	17.	6,077,623	06/20/00	Grosvenor, et al.	429/210	
	18.	6,096,450	08/01/00	Walsh	429/34	
	19.	6,103,413	08/15/00	Hinton, et al.	429/32	
	20.	6,146,780	11/14/00	Cisar, et al.	429/34	
	21.	6,248,467	06/19/01	Wilson et al.	429/39	

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